

PVM-A250

25-inch TRIMASTER EL™ OLED high grade picture monitor



Overview

Slim, lightweight and robust OLED monitor ideal for field applications and OB vans

The PVM-A250 25-inch, Full HD monitor achieves the industry-leading lightweight and shallow body*, with a approximately 40 per cent reduction compared to the previous PVM-2541A model. It is easy to carry, even by one person. The PVM-A250 incorporates the TRIMASTER EL™ OLED panel and offers the industry's widest viewing angles of any professional flat-panel monitor on the market, making group monitoring easy. The stylish new design also includes a robust double-coated paint finish and optional protection panel and corner bumpers**. The latest camera-linkage functions, such as camera and lens metadata display and a Picture and Picture function, provide the convenience of working efficiency both in the field and in the post process.

* Comparing professional broadcast monitors incorporating SDI interface(s) and built-in AC power.

** Requires optional BKM-PP25 protection kit.

- **Stylish lightweight and slim body with industry's widest viewing angle**

Robust double-coated paint finish and stylish sharp edges chassis. Perfect for group monitoring. The PVM-A250 weighs 6.1 kg and is approx. 40% thinner than the previous PVM-2541A model. It provides cost savings for transportation and power consumption. It also saves space and weight in digital galleries.

- **Latest camera-linkage functions**

Includes camera and lens metadata display and a Picture and Picture function with side by side, wipe, blending, difference and auto input switching. Ideal for OnSet and live production monitoring,

- **User presets and password protection**

Secure your monitor settings for greater peace of mind. Five user presets are available. One colour temperature memory USER1 can also be password protected.

- **2K format display and Dual-Link HD-SDI mode**

This feature offers a cost effective 2K monitoring solution, ideal for OnSet digital cinematography. In addition, a Dual-link HD-SDI input is available.

- **Multiple monitors firmware upgrade utility**

Save you time to upgrade simultaneously your monitors through your network.

Features

- **Slim and lightweight – easy to carry**

The PVM-A250 monitor achieves the industry-leading lightweight and slim body* – the PVM-A250 weighs 6.1 kg and is approx. 40 per cent thinner than the previous PVM-2541A model. This advantage allows users to widen their applications, including field monitoring and installation on the monitor wall and OB van.

* Comparing professional broadcast monitors incorporating SDI interface(s) and built-in AC power.

- **Viewing angle innovation**

The PVM-A250 incorporates the TRIMASTER EL™ OLED panel and offers the industry's widest viewing angles for any professional flat-panel monitor on the market.

- **Accurate black reproduction**

A key advantage of TRIMASTER EL is the fact that each pixel can be turned completely off. No other display technology is able to offer this. In comparison, TRIMASTER EL is capable of reproducing accurate black with each individual pixel, enabling users to evaluate each picture image faithfully to the signal.

- **Accurate colour reproduction**

Sony's OLED Super Top Emission technology not only offers a wide colour gamut with its high purity of the three primary colours, but also maintains this wide colour gamut throughout the entire luminance range. TRIMASTER EL system is truly an ideal display device for accurate picture reproduction. With OLED, users can see the details in the blacks, and see the colours as well.

- **Quick response with virtually no motion blur**

The TRIMASTER EL grey-to-grey switching speed (measured in microseconds, μ s) is much faster than that of the LCD (measured in milliseconds, ms).* This fast response benefits a variety of applications and uses, for example, in sports broadcasting.

* Sony's test results.

- **Video input versatility**

The PVM-A250 monitor is equipped with built-in standard input interfaces: 3G/HD/SD-SDI (x2), HDMI (HDCP) input (x1) and composite (x1).

- **Computer input versatility**

Multiple computer signals can be received via an HDMI/DVI interface; the resolution range is from 640 x 480 to 1680 x 1050 pixels.

- **Optional protection kit**

The BKM-PP25 optional accessory kit provides an AR-coated protection panel for the 25-inch monitor, along with corner bumpers to safeguard the monitor from scratches and impact.

* Optional protection kit cannot be mounted together with the rack mount kit.

- **Yoke-mount and VESA-mount capability**

The PVM-A250 has screw holes on its side bezels for yoke-mounting. This type of mounting is convenient when installing a monitor to a camera crane or monitor stand in the field. There are also VESA mount 100-mm pitch holes on each monitor's rear panel.

- **Room clearance connector panel design**

The connector panel on the rear of each monitor is designed to allow sufficient cord clearance, despite of the unit's slim dimension. This design allows space saving and cabling flexibility.

- **Waveform monitor, vector scope, and audio level meter display**

An input signal's waveform and vector scope with an SDI-embedded 2-channel audio level meter can be displayed on screen. Both the waveform monitor and vector scope have various modes, including a zoom function (in an area of 0 to 20 IRE) with the waveform monitor, and a zoom function (in the central black area) with the vector scope, for adjusting white balance. The waveform of a specified line can also be displayed. In conjunction with the Picture & Picture function*, the waveform monitor and vector scope display can monitor two camera signals. In addition, an audio level meter can display the embedded audio signal from the SDI or HDMI input. It can display on screen the ch1 to ch8 or ch9 to ch16.

* Supported with V1.1

- **Camera focus function**

The PVM-A250 monitor can control the aperture level of a video signal, and display images on the screen with sharpened edges to help camera focus operation. Further to this, the sharpened edges can be displayed in user-selectable colours (white, red, green, blue, and yellow) for more precise focusing.

- **Line-doubler* mode for field dominance check and time code function**

The PVM-A250 offers a line-doubler mode, which is helpful when checking for field order and line flicker. In addition, LTC and VITC time code can be displayed at the top or bottom of the picture.

* Supported with V1.1

- **Auto white adjustment***

The PVM-A250 monitor employs a software-based colour temperature (white balance) calibration function, which is called Monitor_AutoWhiteAdjustment. Combined with a PC and commercially available calibration tools*, this function enables simple adjustment of the monitor's white balance.

* The Konica Minolta CA-210/CA-310/CS-200, DK-Technologies PM5639/06, X-Rite i1 Pro/i1 Pro2, Photo Research PR-655/670, Klein K-10, and JETI specbos 1211.

* Supported with V1.1

- **Picture & Picture function***

The unique Picture & Picture function of the PVM-A250 allows simultaneous display of two input signals on the monitor's screen. This function helps with colour adjustment and setting of camera frames. Various modes are available: side by side, wipe, blending, difference and auto input switching. This function works when synchronous SDI signals are input.

* Supported with V1.1

- **2K (2048 x 1080) input and image-slide***

The PVM-A250 monitor can display 2K (2048 x 1080 resolution) input. The 2K signal is displayed in two ways – as a full 2K image scaled into a full-HD (1920 x 1080) screen, or as a 2K native display with an image-slide function.

* Supported with V1.1

- **Camera/lens metadata display function and on-screen tally***

The PVM-A250 monitor can display the camera and lens metadata set of a camera system, according to

the SMPTE RDD-18 document for Acquisition Metadata Sets for Video Camera Parameters. Further to this, these monitors also support a subset of Sony's private metadata.** The monitor is also equipped with a three-colours red, green and yellow on-screen tally function. The position of the tally display can be changed to either the upper or lower section of the screen.

* Supported with V1.1

** Not all metadata is supported.

- **Anamorphic image conversion and Active Format Description (AFD) functions***

The monitor's anamorphic image conversion function** correctly displays horizontally squeezed 3G/HD-SDI signals from an onset camera system. The signals include two major systems: 16:9 1920 x 1080 (1280 x 720) signals and 17:9 2048 x 1080 signals. These signals can be appropriately displayed on the monitor's screen. The Active Format Description (AFD) function*** also reads the ancillary data flag on an SDI, and can upconvert the SD image to display automatically on the full HD resolution screen. This is achieved by adjusting the resolution and aspect ratio.< br>

* Supported with V1.1

** Only 3G/HD-SDI and dual-link HD-SDI are supported.

*** Only SD-SDI signals are supported.

- **Grid Display, two Center Markers and Flip functions***

Grid Display function displays arbitrary multiple vertical and horizontal lines to help when users check the composition of a picture. In addition to a standard Center Marker 1, Center Marker 2 is also available. This second marker enables easier checking of the centre portion's focus. The Flip function turns the reversed image to a normal view, horizontally or vertically.

* Supported with V1.1

- **Power-on setting and USB 2.0 for power supply (+5 V, 500 mA)***

Power-on allows users to select setting data when the monitor starts up; this includes last memory, user preset, and factory preset settings. Users can set the monitor accurately and quickly. This function is very useful for rental equipment. In addition, the USB 2.0 port can supply 5 V power to third-party devices.

* Supported with V1.1

- **User Presets with password lock and short-cut to function key configuration***

When multiple users share the same monitor, each user can memorize his/her setting data and retrieve this data whenever required. This frees the user from time-consuming and repetitive setting tasks. When multiple users share the same monitor, each user can register his/her own password for colour temperature and user preset data. This ensures the user correctly recalls previous user preset data, and keeps preset information safe from unauthorised use. For improving speed of the F-Key configuration, the user can take a short-cut to the settings menu screen by simply pressing the function key repeatedly.

* Supported with V1.1

- **Optimised low-latency I/P conversion**

An I/P conversion system delivers automatically optimised signal processing according to input signals, with low latency (less than 0.5 field). This helps with editing and monitoring fast-moving images, and with synchronising audio with lip sync.

- **Multiple monitors upgrade utility***

Multiple PVM-A and LMD-A Series monitors on the same Ethernet network can be upgraded by simple operation providing an efficient solution for large infrastructure.

* Supported with V1.1

Technical Specifications

Picture Performance	
● Panel	OLED panel
● Picture Size (Diagonal)	623.4 mm (24 5/8 inches)
● Effective Picture Size (H x V)	543.4 x 305.6 mm (21 1/2 x 12 1/8 inches)
● Resolution (H x V)	1920 x 1080 pixels (Full HD)
● Aspect	16:9
● Panel Drive	RGB 10-bit
● Viewing Angle (Panel Specification)	89°/89°/89°/89° (typical) (up/down/left/right contrast > 10:1)

Input	
● Composite Input	BNC (x1), 1.0 Vp-p ±3dB sync negative
● SDI	Input BNC (x2)
● HDMI Input	HDMI (x1) (HDCP correspondence)
● Audio Input	Stereo mini jack (x1), -5 dBu 47 kΩ or higher
● Parallel Remote	RJ-45 modular connector 8-pin (x1) (Pin-assignable)
● Serial Remote (LAN)	RJ-45 modular connector (x1) (Ethernet, 10BASE-T/100BASE-TX)
● DC Input	—

Output	
● Composite Output	BNC (x1), Loop-through, with 75 Ω automatic termination
● SDI Output	BNC (x2) Output signal amplitude: 800 mVp-p ±10% Output impedance: 75 Ω unbalanced
● Audio Monitor Output	Stereo mini jack (x1)
● Speaker (Built-in) Output	1.0 W (mono)
● Headphone Output	Stereo mini jack (x1)

General	
● Power Requirements	AC 100 V to 240 V, 1.3 A to 0.6 A, 50/60 Hz
● Power Consumption	Approx. 115 W (max.) Approx. 80 W (average power consumption in the default status)
● Operating Temperature	0°C to 35°C (32°F to 95°F) Recommended: 20°C to 30°C (68°F to 86°F)
● Operating Humidity	30% to 85% (no condensation)
● Storage / Transport Temperature	-20°C to +60°C (-4°F to +140°F)
● Storage / Transport Humidity	0% to 90%
● Operating / Storage / Transport Pressure	700 hPa to 1060 hPa
● Dimensions (W x H x D)	581.0 x 386.6 x 65.5 mm* (22 7/8 x 15 1/4 x 2 5/8 inches) (without monitor feet) 581.0 x 409.1 x 165.0 mm (22 7/8 x 16 1/8 x 6 1/2 inches) (with monitor feet)

● Mass	Approx. 6.1 kg (13 lb 7.2 oz)
● Supplied Accessories	AC power cord (1), AC plug holder (1), Before Using This Unit (1), CD-ROM (1)
● Optional Accessories	SU-561 Monitor Stand, BKM-PP25 Protection kit
●	*Without projection parts.

Accessories

Control Units



BKM-16R
Monitor Control Unit

Other



BKM-PP25
Protection kit for PVM-A250
monitor



SU-561
Monitor Stand

Rack Mount Kits



MB-L22
Mounting bracket for LMD-
A220/PVM-A250 monitors